

UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE		ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/707,884	10/707,884 01/20/2004		Munehiro Karasudani	22040-00028-US	1883		
30678	7590	08/04/2004		EXAM	EXAMINER		
	LY BOVE	E LODGE & HUT	CHOE, I	CHOE, HENRY			
SUITE 800 1990 M STF	REET NW		ART UNIT	PAPER NUMBER			
WASHING	TON, DC	20036-3425	2817	2817			
			DATE MAILED: 08/04/2004				

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No. Appl		Applicant(s)	plicant(s)				
	10/707,884	ı	KARASUDANI, MUNEHIRO						
Office Action Summar	Examiner		Art Unit						
		Henry K Ch		2817					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
· <u> </u>	Responsive to communication(s) filed on <u>01 June 2004</u> .								
2a) This action is FINAL .	2b)⊠ This								
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
4) Claim(s) 1-18 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-18 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.									
Application Papers									
9) The specification is objected to	by the Examiner	r.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority under 35 U.S.C. § 119									
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
Attachment(s)				•					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date									
Notice of Draftsperson's Patent Drawing Rev Information Disclosure Statement(s) (PTO-1-Paper No(s)/Mail Date 1/27/04; 3/8/04.				atent Application (PTC	O-152)				

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3, 5, 6 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Sueyoshi (Fig. 4).

Sueyoshi (Fig. 4) discloses an amplifier circuit comprising a plurality of amplifiers (Q1-Q3) which are constructed in a cascade connection manner, a power source line (B1, B2) which are connected to the plurality of amplifiers (Q1-Q3) and the wherein the power source line (B1, B2) has a first power source line (B1) which is connected to at least the initial-stage amplifier (Q2) from among the plurality of amplifiers (Q1-Q3) and a second power source line (B2) which is commonly connected to the remaining amplifiers (Q3, Q1) except for at least the initial stage amplifier (Q2), and a ground line (-B3, -B4) which is connected to the plurality of amplifiers (Q1-Q3) and a first ground line (-B3) which is connected to at least the initial stage amplifier (Q2) and a second ground line (-B4) which is commonly connected to the remaining amplifiers except for at least the initial stage amplifier (Q2).

Claims 1, 2, 5 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by Ishikawa et al (Fig. 1).

Art Unit: 2817

Regarding claims 1, 5 and 8, Ishikawa et al (Fig. 1) discloses an amplifier circuit comprising a plurality of amplifiers (Tr1, Tr2) which are constructed in a cascade connection manner, a power source line (VDD1, VDD2) which are connected to the plurality of amplifiers (Tr1, Tr2) and the wherein the power source line (VDD1, VDD2) has a first power source line (VDD1) which is connected to at least the initial-stage amplifier (Tr1) from among the plurality of amplifiers (Tr1, Tr2) and a second power source line (VDD2) which is commonly connected to the remaining amplifier (Tr2) except for at least the initial stage amplifier (Tr1), and a ground line (ground) which is connected to the plurality of amplifiers (Tr1, Tr2).

Regarding claim 2, a bypass condenser (Cb4) which is arranged between the second power source line (VDD2) and a ground line (ground).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4, 7, 9 and 11-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sueyoshi (Fig. 4).

Application/Control Number: 10/707,884 Page 4

Art Unit: 2817

Sueyoshi (Fig. 4) discloses all the limitations in the claims except for that the substrates held by the plurality of amplifiers are connected to the ground line and a power source pad connected to the power source lines and a ground pad connected to the ground lines. It would have been well known to use a power source pad connected to the power source lines and a ground pad connected to the ground lines in order to connect the electrical connection between the substrates and power sources. Therefore, it would have been obvious to have add the well known power source pad and ground pad on the circuitry of Sueyoshi (Fig. 4) because such a modification would have provided the advantage benefit of improving the electrical connection between components. Furthermore, the plurality of amplifiers being fabricated on the substrates are well known in the art of means for mounting and connecting electronic devices to form an Integrated Circuit (IC). Therefore, it would have been obvious to have fabricated the plurality of amplifiers on the substrate because such a modification would have considered a mere application of well-known conventional printed circuit board construction.

Claims 4, 7, 9, 10, 12, 13 and 15-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishikawa et al (Fig. 1).

Regarding claims 4, 7, 9, 12, 13 and 15-18, Ishikawa et al (Fig. 1) discloses all the limitations in the claims except for that the substrates held by the plurality of amplifiers are connected to the ground line and a power source pad connected to the power source lines and a ground pad connected to the ground lines. It would have been well known to use a power source pad connected to the power source lines and a ground pad connected to the ground lines in order to connect the electrical connection between the substrates and power sources. Therefore, it would have been obvious to have add the well known power source pad and ground pad on the circuitry of Ishikawa et al (Fig. 1) because such a modification would have provided the advantage benefit of improving the electrical connection between components. Furthermore, the plurality of amplifiers being fabricated on the substrates are well known in the art of means for mounting and connecting electronic devices to form an Integrated Circuit (IC). Therefore, it would have been obvious to have fabricated the plurality of amplifiers on the substrate because such a modification would have considered a mere application of well-known conventional printed circuit board construction.

Regarding claim 10, a bypass condenser (Cb4) which is arranged between the second power source line (VDD2) and a ground line (ground).

Conclusion

Art Unit: 2817

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Patent numbers (4,935,705; 4,268,797) are the cascade amplifiers.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Henry Choe whose telephone number is (571) 272-1760.

HENRY CHOE PRIMARY EXAMINER

#884